Project:		**Bessie Heights Marsh Restoration – Sabine Neches Waterway**								
HVJ Project No.:	**02-157GH-0**									
Marsh Area:		**Site 3**								
Date of Probing:	**10/17/02**									
Logger: JG								**Vessel: Flat Bottom Boat**		
Probe No.	**Date**	**Time**	**Water Depth**	**Penetration Below Mud Line**				**Consistency of Soil**	**Firm**	**Resistance**
				By Self Weight of the Probe	**By Pushing the Probe**	**Total Depth of Penetration**				
			(ft)	(ft)	(ft)	(ft)	(ft-in)		ft	ft
P-1	10/17/02		1	0.5	9	9.5	9'-6"	6" very soft, firm to 5', soft below 5'	5	
P-2	10/17/02		1	0.25	9	9.25	9'-3"	Very soft to soft	12	
P-7	10/17/02		3.17	0.17	9	9.17	9'-2"	Very soft to soft, firm below 6'	6	
P-8	10/17/02		2.5	0.25	7	7.25	7'-3"	3" very soft, firm to 7.25', refusal at 7.25'	7.25	7.25
P-9	10/17/02		2.5	0.25	9	9.25	9'-3"	Very soft to soft	12	
P-10	10/17/02		2.5	0.17	9	9.17	9'-2"	Very soft to soft	12	
P-11	10/17/02		2	0.08	8	8.08	8'-1"	1" very soft, soft to firm to 8', refusal at 8'	8	8
P-12	10/17/02		1.5	0.33	9	9.33	9'-4"	4" very soft, firm below 4"	4	
P-20	10/17/02		2	0.08	7	7.08	7'-1"	Very soft to soft, refusal at 7'	7	7
P-21	10/17/02		2.5	0.25	9	9.25	9'-3"	Very soft to soft	12	
P-22	10/17/02		2.5	0.25	9	9.25	9'-3"	3" very soft, firm to 6', soft below 6'	6	
P-23	10/17/02		2.5	2.67	9	11.67	11'-8"	Very soft to soft	12	
P-24	10/17/02		2	0.17	9	9.17	9'-2"	Very soft to soft	12	
P-25	10/17/02		2	0.17	9	9.17	9'-2"	Very soft to soft	12	
P-26	10/17/02		1	3"	5.5	5.5	5'-9"	Very soft to 3", firm to 5.5', refusal at 5.5'	5.5	5.5
P-34	10/17/02		2	0.17	4	4.17	4'-2"	Very soft to soft to 4.2', refusal at 4.2'	4.2	4.2
P-35	10/17/02		2.5	0.5	7	7.5	7'-6"	Very soft to soft to 7.5', refusal at 7.5'	7.5	7.5
P-36	10/17/02		2	0.25	9	9.25	9'-3"	Very soft to soft	12	
P-37	10/17/02		2.78	0.17	9	9.17	9'-2"	Very soft to soft	12	
P-38	10/17/02		2.5	0.17	9	9.17	9'-2"	Very soft to soft	12	
P-39	10/17/02		2	0.33	9	9.33	9'-4"	Very soft to soft	12	
P-40	10/17/02		2	0.75	9	9.75	9'-9"	Very soft to soft	12	
P-41	10/17/02		2	0.17	9	9.17	9'-2"	Very soft to soft	12	
P-50	10/17/02		2	0.33	7	7.33	7'-4"	Very soft to soft to 7.3', refusal at 7.3'	7.3	7.3
P-51	10/17/02		3	1	9	10	10'	Very soft to soft	12	
P-52	10/17/02		3	1	9	10	10'	Very soft to soft	12	
P-53	10/17/02		2	0.17	9	9.17	9'-2"	Very soft to soft	12	
P-54	10/17/02		3	0.25	9	9.25	9'-3"	Very soft to soft	12	
P-55	10/17/02		2	1	9	10	10'	Very soft to soft	12	
P-56	10/17/02		2	0.5	9	9.5	9'-6"	Very soft to soft	12	
			feet							
		Average	2.18	0.43	8.42	8.83			9.86	6.68
		Max	3.17	2.67	9.00	11.67			12.00	8.00
		Min	1.00	0.08	4.00	4.17			4.00	4.20
									no firm given depth of 12	
		Water depth average is 2.2'								
		WOR Thickness average is .4' varies from 0.1 to 2.7'								
		Adding 2.2 'water Bottom of WOR average is 2.6								
		Using average firm where 12' given when no refusal is 8.5' = 10.7'depth								